

Table S1

Statistical significance (P values given) of the effects of incubation time, temperature, soil and their interactions on cumulative CO₂-C respired from SOC in control and treated soils, wheat residue-C and priming.

Source	Control SOC	Residue treated SOC	Residue-C	Priming
Time	0.0001	0.0001	0.0001	0.004
Temp	0.0001	0.0001	0.0001	0.025
Soil	0.0001	0.0001	ns	0.003
Time * Temp	0.0001	0.0001	0.0001	0.002
Time * Soil	0.0001	0.0001	0.0001	0.019
Temp * Soil	0.0001	0.0001	0.0001	0.005
Time * Temp * Soil	0.0001	0.0001	0.0001	0.018

ns, not significant

Table S2

Statistical significance (P values given) of the effects of incubation time, soil, temperature and their interactions on temperature sensitivity (Q_{10}) of SOC mineralization in control and treated soils and wheat residue-C.

Source	Q_{10} of SOC mineralization in control soil	Q_{10} of SOC mineralization in residue treated soil	Q_{10} Wheat residue C mineralization
Time	ns	0.0001	0.0001
Temp	0.001	0.0001	0.0001
Soil	0.030	0.011	0.001
Time * Temp	0.001	0.001	0.0001
Time * Soil	ns	0.005	0.001
Temp * Soil	ns	0.021	0.0001
Time * Temp * Soil	0.001	0.003	0.0001

ns, not significant

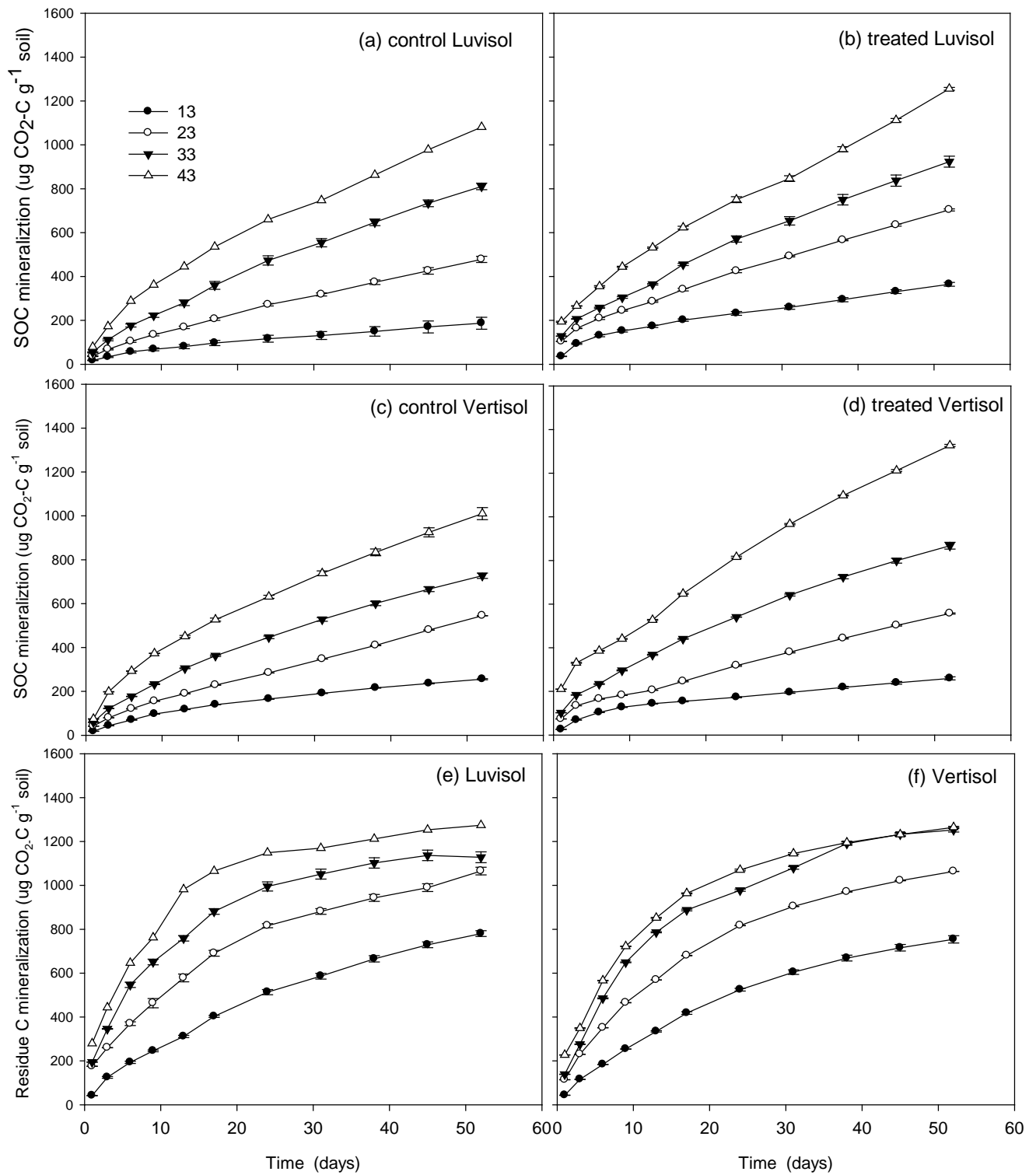


Fig. S1. Cumulative SOC and residue C mineralization during the incubation period at different incubation temperatures (13, 23, 33 and 43 °C) for the control and treated Vertisol and Luvisol. The plotted values are average of three replicates and standard errors are represented by error bars.